

AMENDMENTS TO THE CLAIMS

Following is a listing of all claims in the present application, which listing supersedes all previously presented claims:

Listing of the Claims:

1. (Currently Amended) An ink-jet printhead, comprising:

a substrate on which an ink chamber to be supplied with ink to be ejected is formed on a front surface of the substrate, a manifold for supplying ink to the ink chamber is formed on a rear surface of the substrate, and an ink passage in communication with the ink chamber and the manifold is formed parallel to the front surface of the substrate, a depth of the ink chamber and a depth of the ink passage being the same;

a nozzle plate formed on the front surface of the substrate;

a nozzle formed through the nozzle plate through which ink is ejected from the ink chamber;

a heater formed on the nozzle plate; and

an electrode electrically connected to the heater for applying current to the heater.

2. (Original) The printhead as claimed in claim 1, wherein the ink chamber, the manifold, and the ink passage are formed by an etch method.

3. (Original) The printhead as claimed in claim 1, wherein the ink passage is formed on a same plane as the ink chamber.

4. (Original) The printhead as claimed in claim 1, wherein the ink passage comprises:

an ink channel in communication with the ink chamber; and  
a feed hole in communication with the ink channel and the manifold.

Claims 5-10. (Canceled)

11. (Previously Presented) The printhead as claimed in claim 1, wherein ink flowing through the ink passage flows in a direction parallel to the front surface of the substrate.

12. (Previously Presented) The printhead as claimed in claim 4, wherein ink flowing through the ink channel flows in a direction parallel to the front surface of the substrate.

13. (Previously Presented) The printhead as claimed in claim 4, wherein the ink channel has a substantially rectangular shape.

14. (Previously Presented) The printhead as claimed in claim 4, wherein the ink chamber is a substantially tombstone-shaped.

15. (New) An ink-jet printhead, comprising:

a substrate on which an ink chamber to be supplied with ink to be ejected is formed on a front surface of the substrate, a manifold for supplying ink to the ink chamber is formed on a rear surface of the substrate, and an ink passage in communication with the ink chamber and the manifold is formed parallel to the front surface of the substrate;

a nozzle plate formed on the front surface of the substrate;

a nozzle formed through the nozzle plate through which ink is ejected from the ink chamber, wherein the nozzle is formed at a periphery of the ink chamber, opposite to an entrance to the ink passage from the manifold;

a heater formed on the nozzle plate; and

an electrode electrically connected to the heater for applying current to the heater.